

# SEQUENCE LISTING

<110> Institut Pasteur  
Centre National de la Recherche Scientifique

<120> NOVEL SYNTHETIC PEPTIDE VACCINES FOR HIV: THE CBD  
EPITOPE AS AN EFFECTIVE IMMUNOGEN TO ELICIT BROADLY  
NEUTRALIZING ANTIBODIES AGAINST HIV

<130> B5602 - INSTITUT PASTEUR & CNRS

<140> EPXXXXXXXXXX

<141> 2003-04-11

<160> 21

<170> PatentIn Ver. 2.1

<210> 1

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: caveolin  
binding motif in which Xaa is any amino acid

<400> 1

Trp Xaa Xaa Xaa Xaa Trp Xaa Xaa Trp  
1 5

<210> 2

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: caveolin  
binding domain corresponding to amino acids 619 to  
633 of HIV-1

<400> 2

Leu Glu Gln Ile Trp Asn Asn Met Thr Trp Met Gln Trp Asp Lys  
1 5 10 15

<210> 3  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: caveolin  
binding domain corresponding to amino acids 662 to  
676 of HIV-2

<400> 3  
Leu Thr Pro Asp Trp Asn Asn Met Thr Trp Gln Glu Trp Glu Arg  
1 5 10 15

<210> 4  
<211> 30  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: caveolin  
binding domain corresponding to amino acids 604 to  
633 of HIV-1

<400> 4  
Cys Thr Thr Ala Val Pro Trp Asn Ala Ser Trp Ser Asn Lys Ser Leu  
1 5 10 15

Glu Gln Ile Trp Asn Asn Met Thr Trp Met Gln Trp Asp Lys  
20 25 30

<210> 5  
<211> 26  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: caveolin  
binding domain corresponding to amino acids 651 to  
676 of HIV-1

<400> 5  
Cys His Thr Thr Val Pro Trp Pro Asn Asp Ser Leu Thr Pro Asp Trp

1	5	10	15
Asn Asn Met Thr Trp Met Gln Trp Asp Lys			
20	25		

<210> 6  
 <211> 26  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: caveolin  
 binding domain corresponding to amino acids 651 to  
 676 of HIV-2

<400> 6
Cys His Thr Thr Val Pro Trp Pro Asn Asp Ser Leu Thr Pro Asp Trp
1 5 10 15

Asn Asn Met Thr Trp Gln Glu Trp Glu Arg
20 25

<210> 7  
 <211> 30  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: caveolin  
 binding domain corresponding to amino acids 604 to  
 676 of HIV-1

<400> 7
Cys Thr Thr Ala Val Pro Trp Asn Ala Ser Trp Ser Asn Lys Ser Leu
1 5 10 15

Glu Gln Ile Trp Asn Asn Met Thr Trp Gln Glu Trp Glu Arg
20 25 30

<210> 8  
 <211> 9  
 <212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Caveolin  
binding motif

<400> 8

Trp Asn Asn Met Thr Trp Met Glu Trp  
1 5

<210> 9

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Caveolin  
binding motif

<400> 9

Trp Asn Asn Met Thr Trp Gln Glu Trp  
1 5

<210> 10

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: C-20 peptide  
scaffolding domain of caveolin from amino acids 82  
to 101 of caveolin-1

<400> 10

Asp Gly Ile Trp Lys Ala Ser Phe Thr Thr Phe Thr Val Thr Lys Tyr  
1 5 10 15

Trp Phe Tyr Arg  
20

<210> 11

<211> 17

<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Variant of SEQ  
ID No. 2 in which X is any amino acid, n is 0 to  
20 and m is 0 to 20

<400> 11

Xaa Leu Glu Gln Ile Trp Asn Asn Met Thr Trp Met Gln Trp Asp Lys  
1 5 10 15

Xaa

<210> 12

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Variant of SEQ  
ID No. 3 in which X is any amino acid, n is 0 to  
20 and m is 0 to 20

<400> 12

Xaa Leu Thr Pro Asp Trp Asn Asn Met Thr Trp Gln Glu Trp Glu Arg  
1 5 10 15

Xaa

<210> 13

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Variant of SEQ  
ID No. 2 in which Xaa is Trp, Phe or Tyr

<400> 13

Leu Glu Gln Ile Xaa Asn Asn Met Thr Xaa Met Gln Xaa Asp Lys  
1 5 10 15

<210> 14  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Variant of SEQ  
ID No. 3 in which Xaa is Trp, Phe or Tyr

<400> 14  
Leu Thr Pro Asp Xaa Asn Asn Met Thr Xaa Gln Glu Xaa Glu Arg  
1 5 10 15

<210> 15  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Variant of SEQ  
ID No 2 in which Xaa is Ala, Gly, Val, Leu, Ile,  
Phe, Trp, Tyr, Met, Cys, Ser, Thr, Gln, Glu, Asp,  
Lys, Arg, His or Pro

<400> 15  
Leu Glu Gln Ile Trp Asn Xaa Met Thr Trp Met Gln Trp Asp Lys  
1 5 10 15

<210> 16  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Variant of SEQ  
ID No. 2 in which Xaa is Ala, Gly, Val, Leu, Ile,  
Phe, Trp, Tyr, Met, Cys, Gln, Asp, Glu, Lys, Arg,  
His or Pro

<400> 16  
Leu Glu Gln Ile Trp Asn Asn Met Xaa Trp Met Gln Trp Asp Lys

1 5 10 15

<210> 17  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Variant of SEQ  
ID No. 3 in which Xaa is Ala, Gly, Val, Leu, Ile,  
Phe, Trp, Tyr, Met, Cys, Ser Thr, Gln, Asp, Glu,  
Lys, Arg, His or Pro

<400> 17  
Leu Thr Pro Asp Trp Asn Xaa Met Thr Trp Gln Glu Trp Glu Arg  
1 5 10 15

<210> 18  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Variant of SEQ  
ID No. 3 in which Xaa is Ala, Gly, Val, Leu, Ile,  
Phe, Trp, Tyr, Met, Cys, Gln, Asp, Glu, Lys, Arg,  
His or Pro

<400> 18  
Leu Thr Pro Asp Trp Asn Asn Met Xaa Trp Gln Glu Trp Glu Arg  
1 5 10 15

<210> 19  
<211> 45  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Nucleic acid  
of SEQ ID No. 2

<400> 19

ctggagcaga tctggaacaa catgacctgg atgcagtggg acaag

45

<210> 20

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleid Acid  
of SEQ ID No. 2

<400> 20

ctggaacaga tttggaataa catgacctgg atggagtggg acaga

45

<210> 21

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Nucleid Acid  
of SEQ ID No. 2

<400> 21

ctggaacaga tttggaataa catgacctgg atgcagtggg acaaa

45